

## Product datasheet for **TA384007**

### CLDN1 Rabbit Polyclonal Antibody

#### Product data:

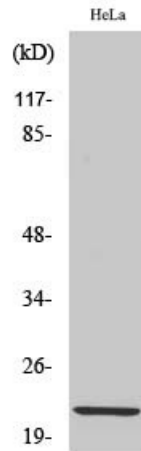
|                         |   |
|-------------------------|---|
| Product Type:           | Primary Antibodies  |
| Applications:           | ELISA, IF, IHC, WB  |
| Recommended Dilution:   | WB: 1/500-1/2000<br>IHC: 1/100-1/300<br>IF: 1/200-1/1000<br>ELISA: 1/40000                            |
| Reactivity:             | Human, Mouse, Rat   |
| Host:                   | Rabbit  |
| Isotype:                | IgG   |
| Clonality:              | Polyclonal  |
| Immunogen:              | The antiserum was produced against synthesized peptide derived from human Claudin 1. AA range:162-211 |
| Formulation:            | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.                       |
| Concentration:          | lot specific  |
| Purification:           | Affinity Chromatography   |
| Conjugation:            | Unconjugated  |
| Storage:                | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.              |
| Stability:              | 1 year  |
| Predicted Protein Size: | Observed MW (kDa):22  |
| Database Link:          | <a href="#">O95832</a>  |



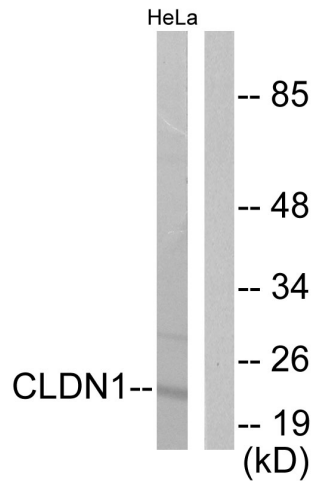
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**Background:**

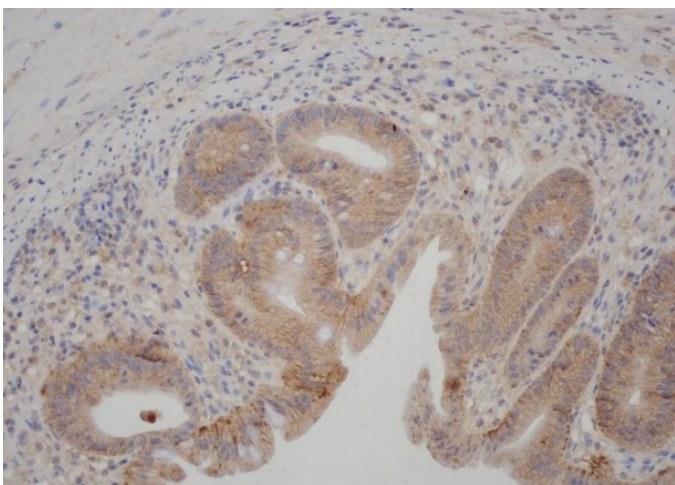
Swiss-Prot Acc.O95832.Claudins function as major constituents of the tight junction complexes that regulate the permeability of epithelia. While some claudin family members play essential roles in the formation of impermeable barriers, others mediate the permeability to ions and small molecules. Often, several claudin family members are coexpressed and interact with each other, and this determines the overall permeability. CLDN1 is required to prevent the paracellular diffusion of small molecules through tight junctions in the epidermis and is required for the normal barrier function of the skin. Required for normal water homeostasis and to prevent excessive water loss through the skin, probably via an indirect effect on the expression levels of other proteins, since CLDN1 itself seems to be dispensable for water barrier formation in keratinocyte tight junctions (PubMed:23407391).

**Product images:**


Western Blot analysis of various cells using Claudin-1 Polyclonal Antibody diluted at 1:1000



Western blot analysis of lysates from HeLa cells, using Claudin 1 Antibody. The lane on the right is blocked with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded Mouse Colon tissue, using Claudin 1 antibody. High-pressure and temperature Tris-EDTA pH 9.0 was used for antigen retrieval.